

Abstract:

Device for Determining a Tendency to Tilt

The invention relates to a device for determining a tendency to tilt about the longitudinal axis and a tendency to turn about the vertical axis of a vehicle, said device using a detection system. The detection system is characterized by a lateral acceleration sensor producing a lateral acceleration signal, a yaw rate sensor producing a yaw rate signal, a steering angle sensor producing a steering angle signal, wheel speed sensors producing the rotation signals of the wheels, and which includes a controller which, in response to the steering angle, the steering velocity and the vehicle speed, determines a tendency to tilt about the longitudinal axis of a vehicle and which, in response to the lateral acceleration sensor, the yaw rate sensor, the steering angle sensor and the wheel speed sensors determines the tendency to turn about the vertical axis of the vehicle, and with the controller generating a triggering signal for at least one passenger protection means depending on the extent of these tendencies.

(Figure 1)